



"SYSTEM 600"

AUTOMATIC SWITCHING SYSTEM

for High-Speed Dispatch of Data/Message
Traffic over the Phone Network

THE MOST ADVANCED SYSTEM IN DATA COMMUNICATIONS



DIAL-O-VERTER[®] by **DIGITRONICS** 

message

data

message

data

message

data

"SYSTEM 600"

THE AUTOMATIC DATA / MESSAGE SWITCHING SYSTEM

WITH THE FUTURE BUILT IN



Transmitting large volumes of data and message information is no longer a problem. Our "System 600" provides the most economical and efficient solution for a combined data/message communications system.

"SYSTEM 600" requires no programming - the "soft-spot" of so-called communications-oriented third generation computers has been eliminated. Previously, the total cost for hardware plus software was difficult to determine - but not with "System 600". Don't wait - solve your communications problems today with "System 600".

"SYSTEM 600" advantages include:

ACCURACY . . . all information is error checked and automatically corrected.

SPEED . . . fully utilizes the speed of your communications network.

SIMPLICITY . . . no programs, programmers, or technicians are required to operate this system.

ECONOMY . . . eliminates the cost of separate data and message systems; uses existing telephone facilities.

TURNKEY OPERATION . . . ready for use as soon as installed.

EXPANDABILITY . . . can be incrementally expanded at low cost and without affecting existing operations.

THE "SYSTEM 600" has the future built in. This is the system that is available today . . . and will still be in use ten years from now.

DIGITRONICS SOLVES THE PROBLEM

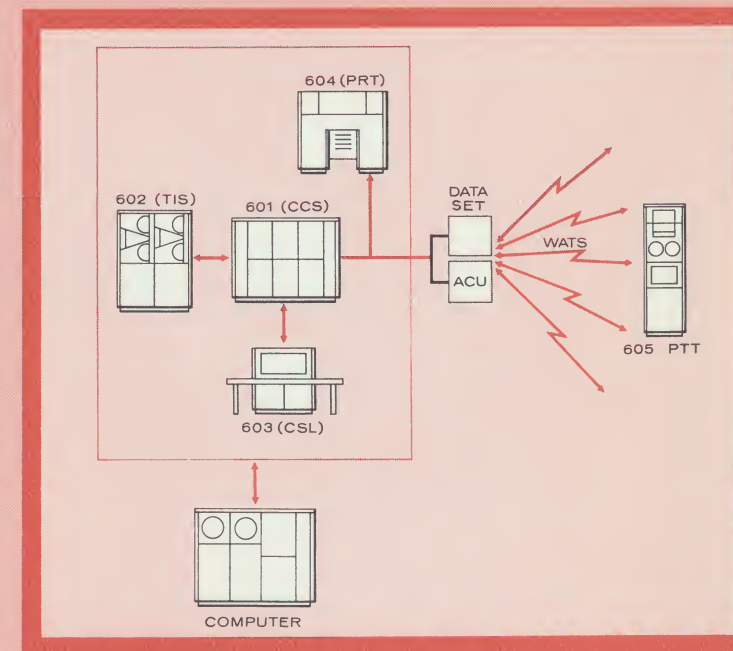


- "SYSTEM 600" Automatically selects and dials stations to be called.
- "SYSTEM 600" Handles mixed data and message information.
- "SYSTEM 600" Operates at high speed (1500 words per minute).
- "SYSTEM 600" Automatically separates traffic at central - data to computer - messages to addresses.
- "SYSTEM 600" Provides special handling for priority messages, assuring prompt delivery of messages to their destinations.
- "SYSTEM 600" Minimizes telephone line charges . . . utilizes WATS dial network service.
- "SYSTEM 600" Requires no programming - factory programmed; no hidden costs.
- "SYSTEM 600" Provides unattended operation of remote terminals.
- "SYSTEM 600" Offers substantial expansion capabilities at very low cost.
- "SYSTEM 600" Requires minimal operator intervention.

"SYSTEM 600"

AUTOMATIC SWITCHING SYSTEM

for accurate, reliable high-speed dispatching of data/message traffic between a central and many remote locations over the phone network.



Digitronics "System 600" provides more accuracy, speed, and economy than any other competitive system or technique.

"SYSTEM 600" FEATURES

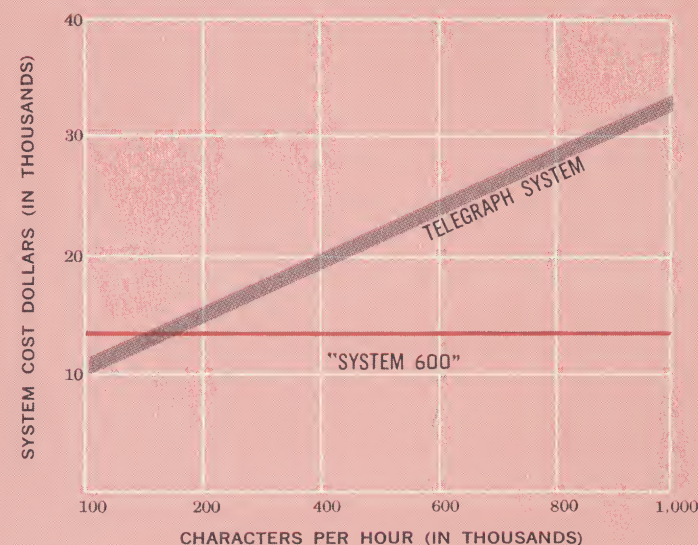
1. **DATA/MESSAGE SEGREGATION** — The formats of transmissions from the remote stations are automatically checked to separate the mixed data and message traffic.
2. **MULTI-ADDRESSING** — A message may be generated at a remote station for delivery to several other remote points and a single message can be sent to as many stations as there are in the system.
3. **GROUPING** — A single message may be directed to one or more of three specific groups of remote stations.
4. **PRIORITY** — Selective stations can be called out of sequence for sending or receiving. Out of sequence calls are automatically recorded and are eliminated from the normal call sequence.
5. **MESSAGE ACCOUNTING** — The status of each call is noted on a lister which produces a printed record.
6. **POLLING SEQUENCE** — A roster of remote station telephone numbers is stored in memory. Stations for which there is addressed traffic are called sequentially. The calling sequence is based upon the position of the information on the input tape.
7. **RETRIEVAL** — Information going into and out of the central station is contained on magnetic tape. Input and output tapes may be stored in permanent file. At a later time any particular call may be located through the use of the message accounting reference as described in 5 above.
8. **ERROR HANDLING** — Message and data traffic are automatically checked at all receiving and transmitting points in the system. The accuracy of received data is assured through automatic error correction.
9. **REMOTE CONTROL** — The equipment at remote locations will be capable of unattended operation, reducing operator costs and making night operation practical.
10. **OPERATOR'S CONSOLE** — Allows single-point control of entire system.
11. **BACK-UP** — An additional 601 Central Control Station provides complete communications backup at central.
12. **EASILY EXPANDED** — Telephone and remote facilities may be expanded without change in central configuration. A basic system can handle up to 64 remote terminals.

"SYSTEM 600" ECONOMICS

The cross-over point between telegraph equipment (the most widely used method for transmitting administrative messages) and "System 600" occurs at approximately 150,000 characters per hour (or 25,000 words per hour). See graph below.

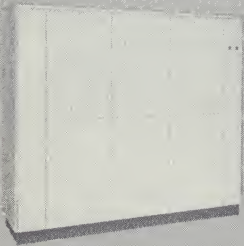
In a communications network which has a peak traffic load of 240,000 characters per hour (40,000 words) the cost for a telegraph system is \$17,000 per month versus \$13,500 per month for "System 600". In addition to affording the \$3,500 per month savings, "System 600" handles both data and message traffic and checks all information for errors.

When the networks' requirements rise to 1,000,000 characters per hour (160,000 words), the telegraph costs increase to \$34,000 per month and "System 600" remains the same (\$13,500 per month).



DIGITRONICS "SYSTEM 600" CAN SAVE YOUR COMPANY OVER \$250,000 A YEAR.

"SYSTEM 600" DIAL-O-VERTER EQUIPMENT



601 CENTRAL CONTROL STATION

Provides all of the control functions for automatically dialing telephone numbers and establishing communications with remote terminals. It also contains the pre-wired program logic and the memory units for storing both data/message information and telephone numbers.



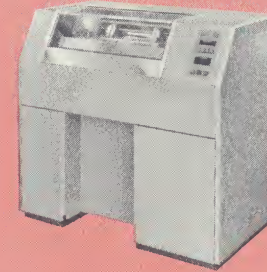
602 TAPE ISLAND

Equipped with two magnetic tape drives for the automatic separation of data and message traffic. May be expanded at moderate cost to grow with users needs.



603 OPERATOR'S CONSOLE

Permits one operator to control the entire network. Also provides a display of the status of each of the equipments and a record of the disposition of each transmission. The console contains all the controls and indicators for polling and information retrieval and can handle two 601 Central Control Stations.



604 ON-LINE PRINTER

Used to record all the traffic transmitted out of the central terminal. It is especially useful for producing hard copy of traffic addressed to central. It also may be used off-line to convert magnetic tape to hard copy.



605 PAPER TAPE TERMINAL

Transmits or receives perforated paper tape (fully chadded). Equipped with a 150 char/sec reader and 100 char/sec punch. A 200 char/sec punch is also available.

AT CENTRAL

REMOTE



message

data

message

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data

message

data

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NOW... MORE THAN EVER...

DIGITRONICS IS FIRST IN INSTALLED, RELIABLE, ACCURATE, HIGH-SPEED DATA COMMUNICATIONS SYSTEMS